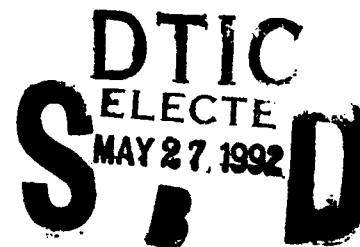
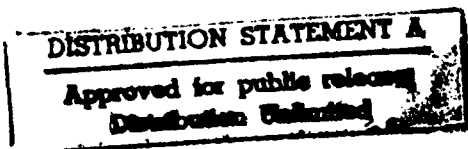




REPORT DOCUMENTATION PAGE

1a. REPORT SECURITY CLASSIFICATION Unclassified			1b. RE	
2a. SECURITY CLASSIFICATION AUTHORITY			3. DISTRIBUTION / AVAILABILITY OF REPORT Unrestricted	
2b. DECLASSIFICATION / DOWNGRADING SCHEDULE				
4. PERFORMING ORGANIZATION REPORT NUMBER(S) DoD POP HMTR/AYD 92-003			5. MONITORING ORGANIZATION REPORT NUMBER(S)	
6a. NAME OF PERFORMING ORGANIZATION Packaging Division		6b. OFFICE SYMBOL (If applicable) SMCAR-AEP		7a. NAME OF MONITORING ORGANIZATION
6c. ADDRESS (City, State, and ZIP Code) U.S. Army Armament, Research, Development and Engineering Center Picatinny Arsenal, NJ 07806-5000			7b. ADDRESS (City, State, and ZIP Code)	
8a. NAME OF FUNDING / SPONSORING ORGANIZATION		8b. OFFICE SYMBOL (If applicable)		9. PROCUREMENT INSTRUMENT IDENTIFICATION NUMBER
8c. ADDRESS (City, State, and ZIP Code)			10. SOURCE OF FUNDING NUMBERS	
			PROGRAM ELEMENT NO.	PROJECT NO.
			TASK NO.	WORK UNIT ACCESSION NO.
11. TITLE (Include Security Classification) Performance Oriented Packaging Testing of Cartridge, 120mm, M830				
12. PERSONAL AUTHOR(S) Mr. Raymond Dunscomb, Packaging Engineer				
13a. TYPE OF REPORT Final		13b. TIME COVERED FROM _____ TO _____		14. DATE OF REPORT (Year, Month, Day)
15. PAGE COUNT				
16. SUPPLEMENTARY NOTATION				
17. COSATI CODES			18. SUBJECT TERMS (Continue on reverse if necessary and identify by block number)	
FIELD	GROUP	SUB-GROUP		
			Performance Oriented Packaging, POP, Cartridge, M830, Metal Ammunition Container	
19. ABSTRACT (Continue on reverse if necessary and identify by block number) This report contains the testing and test results performed on the M830 cartridge, 120mm (packed 1 cartridge per metal container).				
20. DISTRIBUTION / AVAILABILITY OF ABSTRACT <input type="checkbox"/> UNCLASSIFIED/UNLIMITED <input checked="" type="checkbox"/> SAME AS RPT. <input type="checkbox"/> DTIC USERS				
21. ABSTRACT SECURITY CLASSIFICATION Unclassified				
22a. NAME OF RESPONSIBLE INDIVIDUAL Mr. Raymond Dunscomb			22b. TELEPHONE (Include Area Code) (201) 724-2813	
			22c. OFFICE SYMBOL SMCAR-AEP	



1. DATA

CONTAINER:

Type: Drum
UN Code: 1A2
Nomenclature: Container, Ammo, Metal
Specification Number: MIL-C-70478
Drawing Number: 9386831
Material: Steel
Capacity: 57.4 lbs (26.0 kg)
Dimensions: 44.50 in. x 7.75 in. x 7.75 in. (113 cm x 19.7 cm x 19.7 cm)
Gross Weight: 75.4 lbs (34.2 kg)

PRODUCT:

Name: Cartridge, 120mm, HEAT-MP-T, M830
Drawing Number: 12526622
United Nations Number: 0321
United Nations Packing Group: II
Physical State: Solid
Amount per Container: 1 Cartridge

2. BACKGROUND:

This report contains the testing and test results performed on the M830 Cartridge. The metal container (PN 9386831) contains 1 cartridge and is packed in accordance with drawing no. 12630718. Tests were performed in accordance with TECOM Safety Certification Tests which are more severe than Performance Oriented Packaging test regulations.

3. TEST:

DROP:

Containers were dropped twice each from 2.1 meters (7 feet). The containers were dropped on 3 inch solid steel plate reinforced by 18 inches of crushed rock in 5 different orientations. Orientations were as follows:

Bottom
Top
Side
Bottom Corner
Top Corner

A total of sixty containers were tested at -46°C and +63°C.

92 5 26 119

92-13910
■■■■■■■■■■

LOOSE CARGO VIBRATION:

Loose Cargo Vibration test was performed on 60 containers for 1/2 hour each, after previously being subjected to secure cargo vibration for 6 hours. The frequency & input applied (1 in. Double Amplitude at 5 Hz) is considerably more severe than the values specified for POP certification. Therefore the requirements for this testing were met.

4. RESULTS:

The containers passed all tests since none of the contents were discharged. They are considered safe for international transportation in accordance with Performance Oriented Packaging regulations.

5. REFERENCED MATERIAL:

- a. United Nations, "Transport of Dangerous Goods", 6th Edition.
- b. Federal Register Part II



Accession For	
NTIS GRA&I	<input checked="checked" type="checkbox"/>
DTIC TAB	<input type="checkbox"/>
Unannounced	<input type="checkbox"/>
Justification	
By	
Distribution/	
Availability Codes	
Dist	Avail and/or Special
A-1	